

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**Form PTO-1449 (Modified)
(Use several sheets if necessary)**COMPLETE IF KNOWN**

Application Number	09/928,044
Confirmation Number	7172
Filing Date	August 11, 2001
First Named Inventor	Jon M. Bishay
Group Art Unit	3762
Examiner Name	
Attorney Docket No.	337348001US2

Sheet 1 of 11

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
		NUMBER	Kind Code (if known)			
1		*09/451,547		Bishay et al.	12/01/99	
		*09/451,795		Leonard et al.	12/01/99	
		*09/451,796		Leonard et al.	12/01/99	
		*09/451,799		Leonard et al.	12/01/99	
		*09/451,800		Bishay et al.	12/01/99	
		*09/452,477		Bishay et al.	12/01/99	
		*09/452,508		Leonard et al.	12/01/99	
		*09/452,510		Bishay et al.	12/01/99	
		*09/452,663		Bishay et al.	12/01/99	
~		*09/666,931		Leonard et al.	09/21/00	
~ not provided		*09/667,183		Leonard	09/21/00	
~		09/686,993		Gliner	10/10/00	
J		09/751,382		Bishay et al.	12/29/00	
		09/751,503		Gliner	12/12/00	
		29/130,210		Leonard et al.	09/28/00	
		29/134,817		Bishay et al.	12/29/00	
		*3,030,959		Grunert	04/24/62	
		*3,090,151		Stewart et al.	05/21/63	
		*3,208,452		Stern	09/28/65	
		*3,938,526		Anderson et al.	02/17/76	
		*3,943,935		Cameron	03/16/76	
		*4,139,011		Benoit et al.	02/13/79	
		*4,207,903		O'Neill	06/17/80	

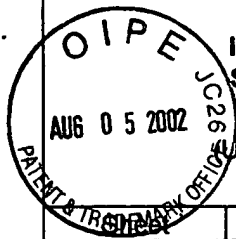
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U.S. PATENT DOCUMENTS

	U.S. Patent or Application			
^	*4,256,116		Meretsky et al.	03/17/81
	*4,262,672		Kief	04/21/81
	*4,281,659		Farrar et al.	08/04/81
	*4,408,617		Auguste	10/11/83
	*4,431,000		Butler et al.	02/14/84
	*4,437,467		Helfer et al.	03/20/84
	*4,512,351		Pohndorf	04/23/85
	*4,541,432		Molina-Negro et al.	09/17/85
	*4,556,064		Pomeranz et al.	12/03/85
	*4,583,549		Manoli	04/22/86
	*4,685,466		Rau	08/11/87
	*4,686,996		Ulbrich	08/18/87
	*4,712,558		Kidd et al.	12/15/87
	*4,765,310		Deagle et al.	08/23/88
	*4,895,154		Bartelt et al.	01/23/90
	*4,934,371		Malis et al.	06/19/90
	*4,949,734		Bernstein	08/21/90
	*4,953,564		Berthelsen	09/04/90
	*5,012,811		Malis et al.	05/07/91
	*5,036,850		Owens	08/06/91
	*5,054,486		Yamada	10/08/91
	*5,094,242		Gleason et al.	03/10/92
	*5,117,826		Bartelt et al.	06/02/92
	*5,211,175		Gleason et al.	05/18/93
	*5,246,014		Williams et al.	09/21/93

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 AUG - 6 2002
 TECHNOLOGY CENTER R3700

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Sheet 3 of 11


U.S. PATENT DOCUMENTS

	U.S. Patent or Application			
✓	*5,255,691		Otten	10/26/93
	*5,269,304		Matthews	12/14/93
	*5,281,218		Imran	01/25/94
	*5,332,401		Davey et al.	07/26/94
	*5,417,719		Hull et al.	05/23/95
	*5,423,314		Schmid	06/13/95
	*5,439,440		Hofmann	08/08/95
	*5,449,378		Schouenborg	09/12/95
	*5,593,429		Ruff	01/14/97
	*5,649,936		Real	07/22/97
	*5,682,233		Brinda	10/28/97
	*5,702,359		Hofmann et al.	12/30/97
	*5,810,762		Hofmann	09/22/98
	*5,861,015		Benja-Athon	01/19/99
	*5,873,849		Bernard	02/23/99
	*5,928,144		Real	07/27/99
	*5,941,845		Tu et al.	08/24/99
	*5,948,008		Daikuzono	09/07/99
	*5,968,063		Chu et al.	10/19/99
	*6,009,347		Hofmann	12/28/99
	*6,032,064		Devlin et al.	02/29/00
	*6,035,236		Jarding et al.	03/07/00
	*6,050,992		Nichols	04/18/00
	*6,068,650		Hofmann et al.	05/30/00
✓	*6,122,547		Benja-Athon	09/19/00

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AUG - 6 2002
TECHNOLOGY CENTER 13700

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~		*6,208,893		Hofmann	03/27/01
		*6,219,569		Kelly et al.	04/17/01
		*6,304,785		McCreery et al.	10/16/01
		*6,341,237		Hurtado	01/22/02
		*Des. 297,047		Hon et al.	08/02/88
		*Des. 318,330		Doty et al.	07/16/91
		*Des 357,069		Plahn et al.	04/04/95
		*D443,063		Pisani et al.	05/29/01

FOREIGN PATENT DOCUMENTS								
Examiner Initial	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
J		*FR	2 500 309		Faiveley	08/27/82	TECHNOLOGY CENTER R370 AUG - 6 2002	RECEIVED
		*FR	2 500 745		Dervieux	09/03/82		
		*GB	2 163 355 A		Simonin	02/26/86		
		*GB	2 255 719 A		Matthews	11/18/92		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
~		*ASSOCIATION FOR ADVANCEMENT OF MEDICAL INSTRUMENTATION, "Implantable Peripheral Nerve Stimulators," American National Standard, ANSI/AAMI NS15 - 1995 pp. 1-8	

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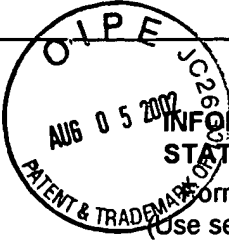
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		*AHMED H. et al. "Percutaneous Electrical Nerve Stimulation (PENS): A Complementary Therapy for the Management of Pain Secondary to Bony Metastasis", The Clinical Journal of Pain (December 1998) Vol. 14, No. 4, pp. 320-3, Lippincott Williams & Wilkins, Philadelphia.	
		*AHMED H. et al. "Percutaneous Electrical Nerve Stimulation: An Alternative to Antiviral Drugs for Acute Herpes Zoster," Anesthesia & Analgesia (October 1998) 87: 911-4.	
		*ALMAY, B.G.L. et al., "Long-Term High Frequency Transcutaneous Electrical Nerve Stimulation (hi-TNS) in Chronic Pain. Clinical Response and Effects on CSF-Endorphins, Monoamine Metabolites, Substance P-Like Immunoreactivity (SPLI) and Pain Measures," Journal of Psychosomatic Research, (1985) Vol. 29, No. 3, pp. 247-257, Pergamon Press Ltd. Great Britain	
		*BAKER, L. L., et al. "Effects of Waveform on Comfort during Neuromuscular Electrical Stimulation," Clinical Orthopaedics and Related Research, August 1998, No. 223, pp. 75-85	
		*BALLEGAARD, S. et al. "Acupuncture and Transcutaneous Electric Nerve Stimulation in the Treatment of Pain Associated with Chronic Pancreatitis. A Randomized Study", Scand. J. Gastroenterol. (June 1985) 20: 1249-54.	
22		*BALOGUN, J. et al. "The effects of acupuncture, electroneedling and transcutaneous electrical stimulation therapies on peripheral haemodynamic functioning", Disability and Rehabilitation (February 1998) Vol. 20, No. 2, pp. 41-8, Taylor & Francis Ltd.	
✓		*BALOGUN, J., "Effects of Ramp Time on Sensory, Motor and Tolerance Thresholds during Exogenous Electrical Stimulation," The Journal of Sports Medicine and Physical Fitness, (December 1991) Vol. 31, No. 4, pp. 521-526	
✓		*BD MICROTAINER Brand Safety Flow Lancet – Product Number 366356. BD catalog 1997-2000, http://catalog.bd.com/sctipts/OBDsheet.exe?FNC=productlist_Alistproducts_html_366356 (August 2001), 3 pages.	

RECEIVED
AUG - 6 2002
TECHNOLOGY CENTER R3700

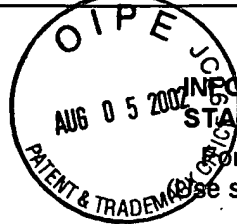
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no Date NP		*BD Safety Products. BD Vacutainer Safety-Lok Blood Collection Set; BD Vacutainer SafetyGlide Blood Collection Assembly and BD Vacutainer Eclipse Blood Collection Needle, 1 page.	
~		*BD Vacutainer SafetyGlide Blood Collection Assembly. Quick Reference Card (October 1999), 1 page.	
NP		*BRULL, S. J., et al., "Pulse Width, Stimulus Intensity, Electrode Placement, and Polarity during Assessment of Neuromuscular Block," Anesthesiology, (October 1995) V. 83, No. 4, pp. 702-709, Lippincott-Raven Publishers	
		*BUSHNELL M. C. et al. "Electrical stimulation of peripheral and central pathways for the relief of musculoskeletal pain", Can. J. Physiol. Pharmacol. (May 1991) 69: 697-703.	
		*CARROLL, D. et al., "Randomization is Important in Studies with Pain Outcomes; Systematic Review of Transcutaneous Electrical Nerve Stimulation in Acute Postoperative Pain," British Journal of Anesthesiology, (1996) Vol. 77, pp. 798-803	
		*CASSUTO, J. et al., "The Use of Modulated Energy Carried on a High Frequency Wave for the Relief of Intractable Pain," International Journal of Clinical Pharmacology Research (1993) XIII (4) pp. 239-241	
		*CHENG R., POMERANZ, B. "Electroacupuncture analgesia could be mediated by at least two pain-relieving mechanisms: endorphin and non-endorphin systems", Life Sciences (December 1979) 25: 1957-62, Pergamon Press Ltd.	
		*CHENG R. et al. "Electroacupuncture elevates blood cortisol levels in naïve horses; sham treatment has no effect", Intern. J. Neuroscience (February 1980) Vol. 10, pp. 95-7, Gordon and Breach Science Publishers, Inc., Great Britain.	
		*CHENG R. S. S., POMERANZ, B. "Electrotherapy of Chronic Musculoskeletal Pain: Comparison of Electroacupuncture and Acupuncture-Like Transcutaneous Electrical Nerve Stimulation", The Clinical Journal of Pain (1987) Vol. 2, No. 3, pp. 143-9, Raven Press, New York.	

EXAMINER	DATE CONSIDERED
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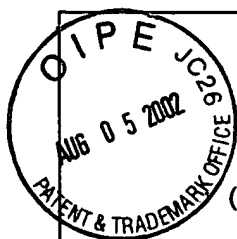
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~		*CRAMP, A.F.L. et al., "The Effect of High- and Low-Frequency Transcutaneous Electrical Nerve Stimulation Upon Cutaneous Blood Flow and Skin Temperature in Healthy Subjects," Clinical Physiology 20, (2000) 2, pp. 150-157, Blackwell Science Ltd.		
~p		*Empi Eclipse+ Dual Channel Transcutaneous Electrical Nerve Stimulator User's Manual, Empi, Inc. (September 1998), US Patent #D282,968, 31 pages.		
~p		*Empi EPIX-VT Dual Channel Transcutaneous Electrical Nerve Stimulator Instruction Manual, Empi, Inc. (1997) 22 pages.		
~m		*Empi EPIX XL-TENS Instruction Manual, Empi, Inc. (September 1998) U.S. Patent No. D319,881, 22 pages.		
~p		*Empi, Our Products: Electrotherapy for Rehabilitation, http://www.empi.com/b/b2.htm , (March 2001), 8 pages.		
~o		*FOSTER, N.E., et al., "Manipulation of Transcutaneous Electrical Nerve Stimulation Variables Has No Effect on Two Models of Experimental Pain in Humans," The Clinical Journal of Pain, (1996) 12; pp. 301-310, Lippincott-Raven Publishers, Philadelphia		
~p		*GADSBY, G. et al. "Nerve stimulation for low back pain -- a review," Nursing Standard (July 1997) Vol. 11, No. 43, pp. 32-33.		
~		*GALLETI, S.P., et al., "Highlights in the Subject of Low Frequency-High Intensity TENS," Minerva Stomatologica (Italy) (Sept. 1995), 44, pp. 421-429		
~		*GHONAME, E. et al. "Does the Stimulus Frequency Affect the Analgesic Response to Electrical Stimulation?" Anesthesia & Analgesia (November 1999) 88: S210, Lippincott Williams & Wilkins.		
~p		*GHONAME, E. et al. "Percutaneous Electrical Nerve Stimulation for Low Back Pain", JAMA (March 1999) Vol. 281, No. 9, pp. 818-23.		

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 AUG - 6 2002
 TECHNOLOGY CENTER F300

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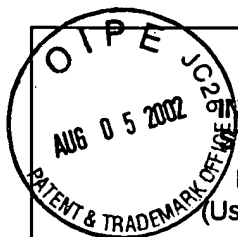
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		*GHONAME, E. et al. "Percutaneous electrical nerve stimulation: an alternative to TENS in the management of sciatica", Pain (November 1999) 83: 193-9, Elsevier Science B.V.	
		*GHONAME, E. et al. "The Effect of Stimulus Frequency on the Analgesic Response to Percutaneous Electrical Nerve Stimulation in Patients with Chronic Low Back Pain", Anesthesia & Analgesia (October 1999) 88: 841-6.	
		*GHONAME, E. et al. "The Effect of the Duration of Electrical Stimulation on the Analgesic Response", Anesthesia & Analgesia (January 1999) 88: S211.	
		*GOPALKRISHNAN, P., et al., "Effect of Varying Frequency, Intensity, and Pulse Duration of Transcutaneous Electrical Nerve Stimulation on Primary Hyperalgesia in Inflamed Rats," Arch. Phys. Med. Rehabil., (July 2000) Vol. 81, pp. 984-990	
		*GRACANIN, F., et al., "Optimal Stimulus Parameters for Minimum Pain in the Chronic Stimulation of Innervated Muscle," Arch. Phys. Med. Rehabil. (June 1975) Vol. 56, pp. 243-249	
		*HAMZA, M. et al. "Effect of the Duration of Electrical Stimulation on the Analgesic Response in Patients with Low Back Pain", Anesthesiology (December 1999), Vol. 91, No. 6, pp. 1622-7, Lippincott Williams & Wilkins, Inc.	
		*HAMZA, M.A., et al., "Effect of the Frequency of Transcutaneous Electrical Nerve Stimulation on the Postoperative Opioid Analgesic Requirement and Recovery Profile," Anesthesiology, (Nov. 1999) V. 91, No. 5, pp. 1232-1238	
WP		*HAN, J.S. et al., "Effect of Low- and High-Frequency TENS on Met-enkephalin-Arg-Phe and dynorphin A immunoreactivity in human lumbar CSF," Pain, (1991) Vol. 47, pp. 295-298, Elsevier Science Publishers B.V.	
	ND	*Healthtronics HANS LY257 User Manual, Healthtronics Pte Ltd., Singapore, 15 pages.	

TECHNOLOGY CENTER R-200

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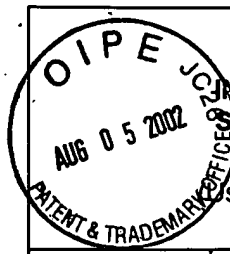
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WP		*Innovative Healthcare: Electrotherapy Pain & Rehabilitation Product Solutions from Rehabilicare. [Includes product description of SportX and Ortho DX], http://www.mvpdesign.com/sites/rehabilicare/all_products.html , (August 2001), 3 pages.	
		*Intellect Legend Stim Clinical Reference Manual, Vol. 4 Intellect Legend Series, Chattanooga Group, Inc., (July 2000) 25 pages.	
		*JETTE, D. U. et al., "Effect of Different Forms of Transcutaneous Electrical Nerve Stimulation on Experimental Pain," Physical Therapy, (February 1986) Volume 66/Number 2, pp. 187-193	
WP		*JOHNSON, M. I. et al., "Analgesic Effects of Different Pulse Patterns of Transcutaneous Electrical Nerve Stimulation on Cold-Induced Pain in Normal Subjects," Journal of Psychosomatic Research (1991) Vol. 35, No.2/3, pp. 313-321, Great Britain.	
		*JOHNSON, M. I. et al., "Analgesic Effects of Different Frequencies of Transcutaneous Electrical Nerve Stimulation on Cold-Induced Pain in Normal Subjects," Pain, (1989) 39, pp. 231-236, Elsevier Science Publishers B.V.	
		*JOHNSON, M.I. et al., "An In-Depth Study of Long-Term Users of Transcutaneous Electrical Nerve Stimulation (TENS). Implications for Clinical Use of TENS," Pain (1991) 4, pp. 221-229, Elsevier Science Publishers B.V.	
		*KATIMS, J.J. et al., "Transcutaneous Nerve Stimulation Frequency and Waveform Specificity in Humans," Appl. Neurophysiol. (1986) 49: pp. 86-91	
		*LANDAU, B. et al. "Neuromodulation Techniques for Medically Refractory Chronic Pain", Annu. Rev. Med. (February 1993) 44: 279-87, Annual Reviews Inc.	
		*LEEM, J.W. et al., "Electrophysiological Evidence for the Antinociceptive Effect of Transcutaneous Electrical Stimulation on Mechanically Evoked Responsiveness of Dorsal Horns Neurons in Neuropathic Rats," Neuroscience Letters (1995) 192, pp. 197-200, Elsevier Science Ireland Ltd.	

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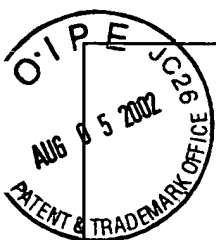
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		*LEHMANN T. et al. "Efficacy of Electroacupuncture and TENS in the Rehabilitation of Chronic Low Back Pain Patients", Pain (September 1986) 26: 277-90, Elsevier Science Publishers B.V.	
		*LISS, S. et al., "Physiological and Therapeutic Effects of High Frequency Electrical Pulses," Integrative Physiological and Behavioral Science, (April-June 1996) Vol. 31, No. 2, pp.88-94	
		*MARCHAND, S. et al., "Modulation of Heat Pain Perception by High Frequency Transcutaneous Electrical Nerve Stimulation (TENS)," The Clinical Journal of Pain (1991) 7: pp. 122-129, Raven Press Ltd., New York	
W D		*Model AWQ-104B Multi-Purpose Electronic Acupunctoscope Instruction Manual, 10 pages.	
		*MORENO-ARANDA, J. et al., "Electrical Parameters for Over-the-Skin Muscle Stimulation," J. Biomechanics, (1981) Vol. 14, No. 9, pp. 579-585, Pergamon Press Ltd.	
		*MORENO-ARANDA, J. et al., "Investigation of Over-the-Skin Electrical Stimulation Parameters for Different Normal Muscles and Subjects," J. Biomechanics, (1981) Vol. 14, No. 9, pp. 587-593, Pergamon Press Ltd., Great Britain	
		*O'BRIEN, W. J. et al., "Effect of Transcutaneous Electrical Nerve Stimulation on Human Blood B-Endorphin Levels," Physical Therapy, (September 1984) Volume 64/Number 9, pp. 1367-1374	
W 2		*OMURA, Y., "Basic Electrical Parameters for Safe and Effective Electro-Therapeutics [Electro-Acupuncture, TES, TENMS, (or TEMS), TENS and Electro-Magnetic Field Stimulation with or without Drug Field] for Pain, Neuromuscular Skeletal Problems, and Circulatory Disturbances," Acupuncture & Electro-Therapeutics Res., Int. J. (1987) Vol. 12, pp. 201-225, Pergamon Journals Ltd., USA	

TECHNOLOGY CENTER R3700

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EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified)
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COMPLETE IF KNOWN

Application Number	09/928,044
Confirmation Number	7172
Filing Date	August 11, 2001
First Named Inventor	Jon M. Bishay
Group Art Unit	3762
Examiner Name	
Attorney Docket No.	337348001US2

Sheet	11	of	11
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
NR		*OMURA, Y., Electrical Parameters for Safe and Effective Electro-Acupuncture and Transcutaneous Electrical Stimulation: Threshold Potentials for Tingling, Muscle Contraction and Pain; and How to Prevent Adverse Effects of Electro-Therapy," Acupuncture and Electro-Therapeutics Res., Int. J., (1985) Vol. 10, Pergamon Press Ltd. USA	
		*ORDOG, G.J., "Transcutaneous Electrical Nerve Stimulation versus Oral Analgesic: A Randomized Double-Blind Controlled Study in Acute Traumatic Pain," American Journal of Emergency Medicine, (January 1987) Volume 5, Number 1, pp. 6-10	
		*Pointer F-3 Instruction Manual, ITO Co., Ltd., Tokyo, Japan (1999), 12 pages.	
		*Radionics products brochure. "A Significant Breakthrough Using Pulsed Radiofrequency for Pain Management", includes RF Lesion Generator System, Model RFG-3C Plus, (1997), Radionics, Burlington, MA, 10 pages.	
NO		*Rehabilicare Ortho-Dx product brochure. "Reduce Rehabilitation Time and Enhance Patient Comfort with Ortho Dx", Rehabilicare, New Brighton, MN, 2 pages.	
W		*Rehabilicare SMP-plus product brochure. "SMP-plus. The Pain Relief Solution for Hard to Treat Patients", Rehabilicare, New Brighton, MN (1999) 2 pages.	
NO		*Rehabilicare SporTX Product Data Sheet, 1 page.	
NO		*Rehabilicare SporTX Quick Set-Up Instructions, "SPORTX. Get back in the GAME!", Rehabilicare, New Brighton, MN, 2 pages.	
NR		*ROMITA, V.V. et al., "Parametric Studies on Electroacupuncture-Like Stimulation in a Rat Model; Effects of Intensity, Frequency, and Duration of Stimulation on Evoked Antinociception," Brain Research Bulletin, (1997) Vol. 42, No. 4, pp. 289-296, Elsevier Science Inc., USA	
		*ROONEY, J.G. et al., "Effect of Variation in the Burst and Carrier Frequency Modes of Neuromuscular Electrical Stimulation on Pain Perception of Healthy Subjects," Physical Therapy, (November 1992) Volume 72, Number 11, pp. 800-809	

RECEIVED
 AUG - 2001
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EXAMINER	DATE CONSIDERED
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**INFORMATION DISCLOSURE
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NP		*SLUKA, K.A. et al., "Treatment with either High or Low Frequency TENS Reduces the Secondary Hyperalgesia Observed After Injection of Kaolin and Carrageenan into the Knee Joint," Pain, (1998) 77, pp. 97-102, Elsevier Science B.V.	
		*SOMERS, D.L., et al., "High-Frequency Transcutaneous Electrical Nerve Stimulation Alters Thermal but not Mechanical Allodynia Following Chronic Constriction Injury of the Rat Sciatic Nerve," Arch. Phys. Med. Rehabil., (1998) Vol. 79, pp. 1370-1376	
NP		*STAROBINETS, M. et al., "Analgesic Effect of High-Frequency and Acupuncture Like Transcutaneous Electric Stimulation of Nerve Fibers in Spinal Osteochondrosis," (Russian) Zhurnal Nevropatologii I Psikhiatrii Imeni S. Korsakova (1985) 85, (3) pp. 350-354	
NP		*ULETT, G. et al. "Electroacupuncture: Mechanisms and Clinical Application", Biological Psychiatry (July 1998) 44: 129-38.	
NP		*VAN DOREN, C.L., "Contours of Equal Perceived Amplitude and Equal Perceived Frequency for Electrocutaneous Stimuli," Perception and Psychophysics (1997) 59, (4), pp. 613-622	
		*WHITE, P. et al. "Percutaneous Neuromodulation Therapy: Does the Location of Electrical Stimulation Effect the Acute Analgesic Response?", Anesthesia & Analgesia (October 2000) 91: 1-6.	
		*WHITE, P. et al. "The Effect of Montage on the Analgesic Response to Percutaneous Neuromodulation Therapy" Anesthesia & Analgesia (February 2001) 92: 483-7.	
NP		*PCT International Search Report for International Application No. PCT/US01/31441; mailed 07 May 2002; Applicant: Vertis Neuroscience, Inc., 8 pages.	

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Group Art Unit	3726
Examiner Name	Unknown
Attorney Docket No.	337348001US2

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
/		5,674,267		Mir et al.	10/07/97	
-		5,873,849		Bernard	02/23/99	

RECEIVED
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TECHNOLOGY CENTER R5700**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
/		WO	01/39829	A1	Vertis Neuroscience, Inc.	06/07/01		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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/		PCT International Search Report; International App No. PCT/US02/25551; Applicant: Vertis Neuroscience, Inc.; February 18, 2003; 7 pgs; European Patent Office	

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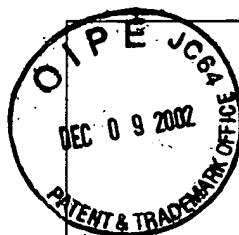
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
		NUMBER	Kind Code (if known)			
J		4,381,012		Russek	04/26/83	
		5,968,011		Larsen et al.	10/19/99	
		6,117,077		Del Mar et al.	09/12/00	
		6,355,021		Nielsen et al.	03/12/02	

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FOREIGN PATENT DOCUMENTS								
Examiner Initial	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	T
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J		4,153,059		Fravel et al.	05/08/79	
		4,284,856		Hochmair et al.	08/18/81	
		4,541,432		Molina-Negro et al.	09/17/85	
		4,979,508		Beck	12/25/90	
		5,851,223		Liss et al.	12/22/98	
		6,269,270		Boveja	07/31/01	

FOREIGN PATENT DOCUMENTS

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